



31 Jan 1940

## The Missouri Miner, February 07, 1940

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# THE MISSOURI MINER

Missouri School of  Mines & Metallurgy

VOL. 26—

ROLLA, MISSOURI, Wednesday, February 7, 1940

NUMBER 19

## Miner Swim Team Wins Two Meets

### Kemper and Westminster Are Defeated by MSM

The Miner swimmers splashed out two victories last week, over Kemper by a 38-27 score and over Westminster by a 37-29 count, to bring this season's record to three victories and one tie in four attempts.

Brackett as high point man in both meets, counting for twelve points in the Kemper meet and ten in that with Westminster, and has been chalking up a good margin in all the contests this season. Hancock, who has taken first honors in the diving event in six of the last seven meets, chalked up first place in each of these meets as well as placing in the 100 yard breast stroke.

Neumeyer set a new pool record in the 100 yard breast stroke event at Kemper, swimming the distance in 1 minute 16.2 seconds.

The fastest time ever credited to a Miner in the 100 yard back stroke event was made by Hadley in the Westminster meet when he paddled it off in 1 minute 13.2 seconds.

Westminster will appear at MSM on February 22 to seek revenge in a meet scheduled for 4:15. The next day the Miners will journey to Warrensburg where the meet with the Mules will highlight the dedication of the new pool and usher in the swimming activities of the Teachers.

#### The Results:

Miners 39 — Kemper 27  
40 yard free style—Brackett, Miners first; Shinn, Kemper, second; Glass, Kemper third. Time 20.4 sec.

100 yard breast stroke—Neumeyer, Miners, first; Barnhardt Kemper, second; Hancock, Miners third. Time 1 min. 16.2 sec.

220 yard free style—Glass, Kemper, first; Wachter, Miners, second; Berndt, Miners, third. Time 2 min. 40.6 sec.

100 yard back stroke—Hadley Miners, first; Cochrane, Miners second; Mason, Kemper, third. Time 1 min. 16.3 sec.

100 yard free style—Brackett, Miners, first; Shinn, Kemper, second; Edson, Kemper, third. Time 1 min. 2.1 sec.

Diving—Hancock, Miners, first; Kelly, Kemper, second; Burberry, Miners, third.

180 yard medley—Won by the Miners in 1 min. 56.6 sec.

160 yard free style—won by Kemper in 1 min. 25.6 sec.

Miners 37—Westminster 29

40 yard free style—Gerner Westminster, first; Brackett, Min

## Butler Presents Papers at Meeting Of Road Builders

Prof. J. B. Butler, Civil Engineering Department Head, presented two papers at the Thirty-Seventh Annual Convention and Road Show of the American Road Builder's Association in Chicago during Jan. 29 to Feb. 2. Appearing before the County Highway Official's Session, he presented a paper, "State Aid For Missouri Local Roads," and to the Joint Planning and Educational Session he presented "Planning Studies in Missouri."

The purpose of studies in state aid to counties is to ultimately work out a system in which the state will raise all revenue for road work with gasoline taxes and license fees. These funds would be divided between a trunk-line highway system and a system of local roads. The funds for local roads would be allocated to counties for expenditure in the best interests of the county road system.

This system would put local road building and administration in the hands of a county highway engineer and abolish smaller road districts.

The remaining problems to be solved before a satisfactory state-aid program can be instituted are allocation factors, the question of state supervision, and a set of standards for county highway engineers and county organizations. Prof. Butler's most recent papers dealt mainly with social and intangible justifications for state aid to rural areas and criterions for just allocation of state fund to counties. Because of Missouri's unique condition, a fair system of allocation which would catch the popular vote has been extremely difficult to devise.

Prof. Butler became interested in roads during his term of office as County Surveyor and part-time Highway Engineer of Phelps County from 1921 to 1925. Since then he has conducted exhaustive studies and written many papers on local roads. In cooperation

See BUTLER, Page 8

ers, second; Rakaskas, Miners third. Time 20.4 sec.

100 yard breast stroke—Neumeyer, Miners, first; Malone Westminster, second; Hancock, Miners, third. Time 1 min. 16.2 sec.

220 yard free style—Barber, Westminster, first; Wachter, Miners, second. Time 2 min. 38 sec.

100 yard back stroke—Hadley Miners, first; Cochrane, Miners second; Barber, Westminster third. Time 1 min. 13.2 sec.

100 yard free style—Brackett Miners, first; Gerner, Westminster, second; Bierman, third. Time 1 min.

Diving—Hancock, first Burberry, second.

180 medley—won by Westminster in 1 min. 57 sec.

160 yard free style relay—won by Westminster in 1 min. 24.6 sec.

## Religious Forum Held

### Rev. Jackson Speaks on 'Modern Approach to Bible'

Rev. O. V. Jackson of the Episcopal church spoke on "A Modern Approach To The Bible" at the first religious forum held Fri. Feb. 2, at 11 o'clock in Parker Hall.

In his address the minister showed that the scientist cannot discredit the Bible because it contains parables which to the scientific mind are impossibilities. "For," he said, "the Bible was written by inspired individuals who did not understand nature as the scientists do today, and who tried in their writings to give a divine explanation for the phenomena which they observed. These explanations are beautiful and inspiring, often to the extent that poetry is, and cannot be interpreted literally. The stories all stand for truth and beauty, however, and are not less divine because of the fact that they are 'not designed in the same manner as a science text book.'"

After the talk, opportunity was given for questions and a full 20 minutes were spent discussing questions relating to the interpretation of the Bible.

## Ten Matches, Ten Victories Unusual Record of Miners' Rifle Team

Ten matches, ten victories, no defeats: such is the unusual record of the Missouri School of Mines rifle team this year. Since the opening of the season last December 9, Sergeant Bertram's squad has accumulated a total of 27,925 points, while the aggregate scores of their opponents total of 26,459.

This margin of 1,464 points is an exceptionally high figure when it is considered that 10 points of a total of 200 points make the difference between an ordinary shot and an expert marksman, and that consequently rifle matches are won by comparatively small scores.

The outstanding performance of this year's team are the three F's: Fick, Finley, and Fields. Armin Fick and Bob Fields are both graduates of Beaumont High School in St. Louis, where they both starred on the Beaumont High team. To Fick goes the honor of having fired the highest single score of the season, 384 of a possible 400 points last week in the match with Rose Polytech, which is exceptional shooting in any man's league. Until last week,

## Dr. W. R. Chedsey Is Featured in Mining Magazine

In the February issue of the Mining and Metallurgy magazine is a page devoted to Dr. W. R. Chedsey, who was recently elected chairman of the Mineral Industry Education Division of the American Institute of Mining and Metallurgical Engineers. The page contains a picture of Dr. Chedsey and a short article giving some of his experiences and qualifications. This issue is now available in the library for those who are interested.

Quoting the magazine, "His attractive aggressive personality and capacity for making friends cannot but impress upon all who meet him that he is a worthy Chairman of the Institute's Education Division."

## Spring-term Tangle To Be Held Feb. 17

A ticket to the St. Pat's dance will be given away at the "Spring-term Tangle" which is to be held February 17, from 9 till 1, in place of the St. Pat's board dance which was scheduled for Jan. 27. A chance for the prize ticket is obtained by buying a ticket in advance. Admission will be 65c in advance and 75c at the door. No chances for the St. Pat's ticket will be given to those who pay at the door and do not have an advance ticket. This is the last dance to be given by the St. Pat's board before the annual St. Pat's celebration.

The cloak room will again be handled by the St. Pat's Board.

## 450 Attend S.A.M.E. Ball

### Miss Broemmelsick Is Commissioned Cadet Colonel

Approximately 450 officers and guests attended the Society of American Military Engineers' Ball, held Saturday night at Jackling Gymnasium, which proved to be one of the most colorful events of the School of Mines social season.

Miss Dorothy Broemmelsick of Chesterfield, Mo., was commissioned Cadet Colonel at a ceremony shortly before intermission. Miss Broemmelsick, a junior at the University of Missouri, succeeded Miss LaDonna Kershner.

A 10-man squad, taken from the Detonators, gave a short drill and manual of arms exhibition after the ceremony.

The Ball was preceded by the Society's first annual banquet held at the Hotel Edwin Long, and was attended by 84 members and guests. Adjutant General Lewis Means of the Missouri National Guard was one of the speakers. The list also included Dr. W. R. Chedsey, Director of the School of Mines; Major L. C. Gordon, Professor of Military Science and Tactics at the School of Mines; Major O. D. Orten, head of the Economics Department at the School of Mines; and Cadet Colonel Walter P. Leber. President John J. O'Neill acted as toastmaster.

Officers and Honorary Officers of the ROTC were: Lt. Robt. J. Livingston and La Dona Kershner, First batt; Maj. Les M. Payne and Alma Jobe; Lt. Clyde Cowan and Caroline Witte, Co. A; Capt. John J. O'Neill and Pat Rodell; Lt. R. N. Lorange and Dot Fort; Co. B: Capt. Joe E. Raskaskas and Marjorie Aston; Lt. Roy Perry and Virginia Tune; Co. C: Lt. J. F. Welch and Irene Shipley; Lt. B. A. Dennis and Elizabeth Switzer. Second Batt. Maj. Rex. Alford and Mary Gardner; Lt. J. F. Rushing and Leta Grafft; Co. D: Capt. Marvin Coon and C. Marler; Lt. Carl Cotterill and Jean Line; Lt. Lynn Riege and Evelyn Shamburg; Co. E: Lt. A. J. Tucker and Pauline Baker; Lt. Tom Kelly and Annette Olcott; Co. F: Capt. Hal Wilder and Emma DeVaney; Lt. Norman Tucker and Julie Hahn; Lt. James Donahue and Erlene Graddy. Regt. Comm. Col. Walter J. Leber and Dorothy Broemmelsick.

are two other team members that have proved valuable to the team the past two years.

Jimmy Fox, Sid Burberry and Melvin Ullrich are three sophomores that have been pushing to the front in the past few weeks. Next year they should be among

See RIFLE TEAM, Page 8



### Talent, Tripe, or Nothing At All?

It is reaching that time of year when the thoughts of the various organizations on the campus turn toward the annual custom of Stunt Night. As yet, a Stunt Night for this semester has not been definitely decided upon, the decision resting with Dr. Chedsey.

We cannot help but think of the same event of last year and, at the same time, of the somewhat violent reaction of the townspeople who had attended the program. Though quite a little of the criticism was well aimed and well meant, not a little hard feeling was generated on and off the campus.

As we see it this year, there is a movement to close the program to all non-students and to relax all censorship by the faculty committee. To do either or both would be a mistake. It is a grave mistake when we bow to that small but loud-voiced minority of the student body which would prostitute one of the finest and hitherto best enjoyed evening's programs of the year by injecting their overly large share of filth and smut.

We hold that a poll of the campus would reveal that by far the majority of the students would rather have an old-time program for Stunt Night in which true cleverness and acting ability are stressed and of which none of us would be ashamed. As the question stands now, it is whether or not the event will be a real stunt night or a poorly acted, smutty burlesque.



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### The Morning Mail

To the Editor of the Miner:

The Society of American Military Engineers are to be congratulated for the splendid party they gave Feb. 3. The guests and the members of the society enjoyed the affair because it was well planned, and the plans were carried out in dignified manner.

The music was good, the floor was not crowded, and the conduct was excellent. It proved that a splendid party can be staged at M. S. M. The guests, with one accord, agreed that it was a grand affair.

(Signed) A Professor

Dear Editor:

With a little more than a month of comparatively few social events ahead, St. Pats looms up in the future like an old, long searched for friend. While these dark, dreary weeks are passing by there will be plenty of opportunity for stray thoughts, and most of them will concern any future holiday, which around the end of February happen to be St. Pats. And of course a coming St. Pats naturally brings forth the all important question, or problem, of what band will be here.

This is a question which will always cause criticism on our campus because while opinions will come and opinions will go most of those which will be expressed are condemnatory and very few of practical value. In selecting the choice of a band made by the St. Pats Board, we frequently fail to realize the difficulties, both financial and otherwise, with which the Board has to contend. We fail to realize that everything is not so simple as we would have it and that the odds are against us many times. And at the same time we ourselves could not do any better. There are too many cases of people condemning those holding a responsible office merely because those doing the complaining have never been in a responsible position themselves to realize the consequences.

We elect men to hold responsible offices on the campus. Why not support these officers and boards and show our confidence in them instead of grumbling among ourselves when we can offer no better solution. Why not, for a change, play along with the St. Pats Board and encourage, not deprecate its action whatever it may be. We can be sure that every member is working for all our benefits.

Sincerely yours,  
A St. Pats Board Rooter.

Dear Editor—

The Miner audience was at the peak of classical appreciation Thursday night as Percy Grainger, noted musician and composer, played a selection of world-famous compositions.

The master artist proceeded through his first number nobly, receiving no pennies, catcalls, or audience blunders. Upon finishing it, he left the stage, followed by round after round of applause, in response to which he re-entered presently, presumably to take a bow. As soon as he appeared on the stage, however, the audience ceased clapping. Taken aback by the sudden change of attitude in his listeners, the maestro stood rubbing his hands and swallowing air for a few moments, and then announced that he would play Brahms "Cradle Song," which was not on the program. Some of the Miners commented that this was the best number. No doubt because it

### From the DIRECTOR'S OFFICE

by  
**DR. W. R. CHEDSEY**

#### "Get Johnny"

"Ever since the car was new there had been a most aggravating creak in the cowl. Five times the car had gone back to the service station to have the creak removed. They shaved the wood where it was fastened to the metal body. They tried lubricating with grease. Another time they tightened up the bolts that held the wood and metal together. Then they loosened them. Finally they raised the body and packed felt strips between the wood and metal to make a good job of it.

But the creak was still there. Again the car went to the service station. An inspector who did not know so much about cars, but who knew a lot about men, became interested in the story of the creak in the cowl and the repeated trips to the service station.

"We'll fix it," he said. He drove the car to the back of the shop and called to a boy, "Get Johnny!"

"Johnny's busy," came the answer.

"That doesn't matter; get Johnny!" commanded the inspector.

"But Johnny's upstairs on the top floor. Won't someone else do?" argued the assistant.

"No! Get Johnny!" Johnny came. In a rough wooden box under his arm he had a few tools.

"What's the trouble?" "Creak in the cowl."

"Which side?" "Lower left side."

Johnny put his box of tools in the back of the car, stepped on the running board, and said "Start 'er up." The car ran fifteen feet. John said, "Shut 'er down." He raised the hood, put his hand inside a moment, bent a piece of metal with his fingers, lowered the hood, took out his tools, and said, "She's all right; go ahead."

And the creak was gone. It doesn't matter whether you need a good sales manager, a mechanic, or a president—get Johnny. He is the man who knows when you find him, he will be busy. He is probably on the top floor, too, and you'll have to go to some trouble and refuse to have anyone else if you get Johnny. There are many others 'just as good,' but they are not Johnny.

"Get Johnny!"

Wm. R. Chedsey.

came forth so spontaneously. Then during Chopin's Sonata, the audience became so enthusiastic that it could not refrain from breaking the rules of etiquette by applauding between movements. Percy, a bit bewildered, (and perhaps a little understandingly by this time) did only what a gentleman could do—took a bow each time, some while seated.

Aside from these small and very technical errors, and a slight dribbling in and out all during the program, the Miners may be said to be improving greatly as an audience, and is deserving of more lectures that require finer appreciation.

Yours truly,  
Emily.

### With the ALUMNI

Mrs. Margaret Eulich and Dr. Sam E. Roberts were married recently in Kansas City. She is 36 years old, and the author of a book, "White Mother in Africa", based on her experiences in the Belgian Congo with her first husband, A. V. Eulich '20, mining engineer, who was killed in 1937 in a motor car accident.

C. W. "Ted" Adams, ex '14, is in the Los Angeles office of the Cyprus Mines Corporation, a company which operates copper and pyrite mines on the Island of Cyprus, in the east end of the Mediterranean. His office address is 1206 Pacific Mutual Building.

Harry Tushman '39 is with the Wyman-Gordon Company at Worcester, Massachusetts.

Although not tradition, it is generally the desire of an old grad to send his son or daughter to his own alma mater for higher education. This has frequently been the case at Missouri School of Mines, although unfortunately few of the daughters attend as a rule. Throughout the history of this school, however, several alumni have sent one or more sons to the old alma mater and have formed more intimate links with the school in so doing. For instance, there is the A. P. Green family.

Mr. Green, Sr., who happens to be one of MSM's outstanding alumni, is a graduate of 1896. As is the general rule, hard work and a good knowledge of one's profession soon brought success to Green when out of school. After years of various work in Civil and Mining Engineering, Allen Percival Green in 1910 founded the A. P. Green Fire Brick Company at Mexico, Mo. During the past thirty years, this same company has grown rapidly and is now one of the foremost ceramic products institutions in the United States.

Mr. Green has extended his activities beyond his own firm also. He is a member of the American Refractories Institution, the American Ceramic Society, and the American Chemical Society. He is listed in "Who's Who in America."

Following in his footsteps are two sons, Allen Percival Jr. and Robert Stafford. Both attended MSM not long ago, Allen Percival being a graduate of '32. After graduation Allen Jr. went to work in the A. P. Green Fire Brick Company as an engineer, as did his brother, Robert Stafford, who also attended MSM for his higher education. While here, Robert was a member of the former Orten Society and became President of the Sigma Nu Fraternity. Both brothers are now engaged as A. P. Green engineers.

Missouri School of Mines students will recall Mr. Green, Sr. as the founder of the A. P. Green Award which offers a cash prize to the highest ranking student in each junior class. In 1935, MSM awarded Mr. Green an Honoria Causa degree in recognition of his extended activities in his profession.

Almost totally blind since the age of 10, a Keuka College student has written a new psychology book in Braille.



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# SPORTS PAGE

Wednesday, February 7, 1940

THE MISSOURI MINER

Page Three

## Miner Riflemen Win 10th Straight

The Miner rifle team won its tenth consecutive match last week when the ROTC team of Rose Polytechnic Institute, at Terre Haute, Indiana, fell before the Miner marksmen with the lopsided score 3398 to 3643. The match was a four position, ten men match with ten shots fired in each position, making a total of 4000 points.

The week before last the Miner varsity team defeated Yale University of New Haven, Connecticut, in a five man, three position match, with a score of 1389 to 1345 of a possible 1500 points. The same week a four position, five-man match was fired with Coe College of Cedar Rapids, Iowa. The Miners won with a score of 1876 to 1829, of a possible 2000 points.

The totals for the ten man team firing last week are as follows, of a total possible of 4000 points:

A. Fick	384
F. W. Finley	376
M. C. Ulrich	369
R. E. Fields	365
E. G. Johannes	363
J. R. Zagata	362
S. Burberry	358
J. H. Fox	356
A. E. Schill	355
K. W. Martin	354

## Round the MIAA

Maryville continued its winning ways in the MIAA loop last week chalking up three victories in as many tries to remain at the top of the heap. The Bearcats hung up wins from Springfield, Monday, Warrensburg on Tuesday, and the Miners on Friday. The Teachers haven't lost a basketball game since the national intercollegiate tournament last March, and now need only two more victories to assure them of the MIAA supremacy.

Springfield split in their two games, losing to Maryville and coming back to defeat the Indians from Cape Girardeau on Friday.

The Miners fared the poorest of all dropping both of its games in conference play.

M. I. A. A. Standings			
Colleges	W	L	Pct.
Maryville	7	0	1.000
Warrensburg	4	2	.667
Cape Girardeau	3	3	.500
Springfield	3	3	.500
Missouri Mines	1	5	.167
Kirkville	1	6	.143

Games this week:  
Tuesday—Maryville at Rockhurst.

Friday—Cape Girardeau at Rolla,\* Warrensburg at Springfield,\* Kirkville at Maryville.\*

Saturday—Warrensburg at Pittsburg.

\* Indicates conference games.

**J. M. PIRTLE**  
**Watchmaker & Jeweler**  
**Serving the Miners**  
**Since 1907**

## On The Bench

With Bob Nevins  
The Bench comes out of retirement this week at the suggestion of the basketball team to write a few words on the fan's general attitude at the Washington U. game. Don't get the idea that every time we write we're griping about something, because there really are lots of things around here that we think are worthy of commendation, but today its different.

The basketball team is taking the same attitude as the football team had for a while and that is that they don't like to play at home. The reason is that the poor sportsmanship shown by the crowd at the game really hindered our players more than it helped them. The technical foul called on Floyd Watts was in reality called on the fans.

It really is too bad that we can't be a little more sportsmanlike at our athletic contests. After all if our players aren't complaining, why should we? True, the official did call a few raw ones but more of the boos came when the ruling was right. Ask any of the players after they cool down and you'll get their word that the officials do a pretty good job.

One more thing and then I'll close. Don't pick out an individual to boo and razz just because he slips for a moment and lose his head, when that W. U. player started to swing at Cook it was just for effect, we all do it! Cook got hot for a moment but when he was taken out he showed he was ready to "forgive and forget" by shaking his adversary's hand. If the players can cool off and be sports, why can't the fans, who are not near as concerned in the event.

Don't forget we're writing this piece at the request of the team, but we're sure if you'll look back you will realize the booing was pretty cheap.

Let's snap out of it, gang, and give the other team a break next time. Thanks.

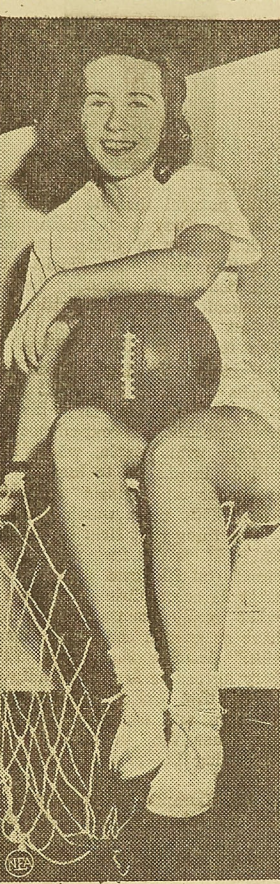
## Maryville Trims Miners, 39 to 25

Maryville continues to stay on top of the MIAA basketball conference, after defeating the Miners 39 to 25 last Friday night. This victory gave Maryville seventeen straight victories, and practically cinches their chance of winning the title.

Bruce scored seven field goals and two free throws, to lead both teams in scoring. Johnson, Maryville forward, looped three field goals and four free-throws, to hold second place honors for high score. Kamper, Miner and Hull, Maryville, scored five and six points respectively for second high score honors for their team.

The box score:			
MINERS (25)			
Player	FG	FT	F
Kamper, f	2	1	2
Watts, f	0	0	2
Nesley, f	0	0	0
Bruce, c	7	2	1
Wampler, g	0	2	2
Cook, g	1	0	1
Carroll, g	0	0	0
TOTALS	10	5	8
MARYVILLE (39)			
Player	FG	FT	F

## All-America Girl



Earning 1500 athletic points in three years at Sacramento High School, Frances Wight, 18, captained girls' basketball team throughout, captained baseball and volleyball teams, and starred in badminton.

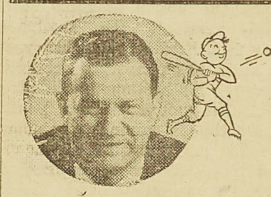
## DANCE DATES

Fri., Feb. 9—Theta Kappa Phi
Sat., Feb. 10—Sigma Nu
Fri., Feb. 16—Kappa Alpha
Sat., Feb. 17—Alpha Lambda Tau
Wed., Feb. 21—Freshmen
Sat., Apr. 13—St. Pats Board
Fri., Apr. 19—Pi Kappa Alpha
Sat., Apr. 20—Alpha Lambda Tau
Fri., Apr. 26—Kappa Sigma
Sat., Apr. 27—Kappa Alpha
Fri., May 3—Tau Beta Pi
Sat., May 4—Theta Tau
Fri., May 10—Sigma Nu

## use TUCKER'S Pasteurized Milk

Hutchinson, f	2	1	0
D. Johnson, f	3	4	3
Insley, f	1	0	1
Goslee, c	1	0	2
Alpert, c	1	0	0
Hull, c	3	0	2
Weary, c	1	0	1
Howell, c	0	0	1
Hackett, g	2	3	2
Rogers, g	0	1	0
Walker, g	1	0	1
E. Johnson, g	0	0	1
TOTALS	15	9	14

Score at end of half: Maryville 19, Miners 10.



## The Nation's SPORTS PARADE

By FANCE LAUX

Special to the MISSOURI MINER

'Long about this time of the year, my side-kick, Cy Casper, and I start letting our conversation drift to baseball, without any effort at all.

The other night (the same day, in fact, that he signed his 1940 contract) I had Johnny Mize, the Cardinal's big, slugging first baseman, down for an interview. And the following night, Terry Moore, the Card's great center-fielder, was down for an ether-gossip with me.

So that may be the one big reason Cy and I have been gabbing so much about the grand old game of baseball. Then, too, the Cardinals' chance of winning a pennant in 1940, plus the fact that the All-Star game will be held here, can be added as further reasons.

According to info. forwarded by Bill Brandt of the National League, only four pitchers of this circuit succeeded in pitching three complete games against the champion Cincinnati Reds in the course of the Centennial season, and only two achieved the distinction of beating the pennant winner four times.

The Case of "Fiddler Bill"  
"Fiddler Bill" McGee of the Cardinals wasn't represented in either of these brackets, but in analyzing the work of rival National League pitchers against "Deacon" McKeck's flag-hunting host, Tom Swope pins a very special rosette on the blond "Red Bird" mound ace from Batchtown, Ill.

McGee started three games against the Reds and won two of them. Both his victories were shutouts and by identical scores—4 to 0. One was a six-hitter on Labor Day, with the Cards sizzling hot on the pennant trail, and the other a four-hitter, September

27th, with Crosley Field pammed tight with Red rooters gathered in the hope of seeing Cincy clinch the crown!

Thanks to "Fiddler Bill" and his four-hit kalsomine job, the Cards postponed the pennant-clinching until the following day. Curt Davis, the "Fiddler's" team-mate beat the Reds four times in the course of the campaign. Bill Lohrman of the Giants had four decisions over them, too. Claude Passeau and Charlie Root of the Cubs and Harry Gumbert of the Giants each registered three wins over the National League champs of '39.

These two September shut-outs were McGee's only wins over the Reds. But heading toward another season and a brand new, wide-open pennant race, Swope's statistics perch McGee right up in front of the National League aces looming in the pathway which the Reds must traverse to gain their second straight pennant.

Incidentally, in two out of three games played last year by the Reds, the opponent's starting pitcher was not around at the finish. They played 156 games, and only 51 times did a rival pitcher succeed in lasting the limit. The contending Cardinals ranked second in this department, with only 58 complete games pitched against them.

This may be the wrong time of year to set your mind on baseball but to the dyed-in-the-wool baseball fans, I kinda feel this dope will be just about as interesting as any winter sports discussion could be. So until next week at this time, it's just so long to all sports.

\*\*\*  
France Laux Sports Review is broadcast nightly, Monday thru Saturday, over KMOX, at 10:15 p. m.

## Alumni News

A large group of Miners, graduates of the Cleveland High School, St. Louis, attended the meeting of the Cleveland High School Alumni Association there last Friday night and renewed many old acquaintances.

The program of the evening consisted of entertainment by undergraduates, and dancing in which all participated.

It was announced that the next meeting of the association will be held on the last Friday in January in 1941, and all graduates of Cleveland were urged to be present.

The Engineer's Lament  
Listen, collegians, and you shall hear  
The sad, sad tale of the engineer.  
All the day long he meets, in his classes,  
The male of the species, no beautiful lassies.  
No ravishing babes frolickin' with

'em,  
Just sliding the rule of the logarithm.  
The lectrical men may solve a new circuit.  
But the problem of women—they'll never work it.  
The theory of mechanics is mastered by many (?)  
But the masters of women—bosh, there ain't any.  
The civils are always blazing new trails,  
But they're not so hot at praising the 'frails.  
The rest of the gang is messing with chemicals  
Which leaves little time for analyzing femmy-gals.  
'Tis a bleak dismal outlook to the engineer,  
To go through school without feminine cheer.  
Can nothing be done about this state?  
Apparently not—'tis the engineer's fate.  
—The Penn. Triangle.



## Eighteen Pairs of Brothers Are Now Attending School of Mines

By Charles Zanzie

This is the first of a series of three features reviewing the brothers in attendance here.

There are eighteen pairs of brothers attending the School of Mines at present. They range from the ages of 18 to 27 and have hobbies relating to everything from radio to beer busts. Below is some facts about a few of these.

Bill and Ralph Alsmeyer are junior and freshman students respectively from St. Louis. Bill is a Civil but Ralph turns up his nose at that curricula and declares that he likes radio and will be an E. E. He has worked several years at Wagner Electric in St. Louis. Bill has spent his available time working for Koerner Engineering Company doing structural design, and hopes to continue with them after graduation. He makes good grades, is vice president of the A. S. C. E. and plays intramural basketball. Ralph, a tall, brawny, curly-haired youth weighing 180 pounds, hates Chemistry and spends his spare time on the rifle range.

From Kingston, N. Y. we have Robert and Norman Baker, both juniors, Robert a Mining Geologist and Norman a Petroleum. Norman, two years younger than his brother, likes beer, pool, and the petroleum industry. He has a job lined up in Corpus Christi, Texas this summer where he will have his first experience in an oil field.

Sam and Cliff Boutin are both transfers from Cape Girardeau teachers college. Both are seniors and both spend all their extra-curricular time either working or hunting. Sam jerks soda at the Pennant, and Cliff works at Schuman's Tourist City. Besides

this, Cliff likes to collect guns, swim and box. Being in the 125 lb. class, and 23 years old, he can hold his own with most fellows in his weight group. Sam, a mechanical, prefers to stick with his books and hopes to get a job in the automotive industry soon.

Last year all the freshmen knew Bill Eisman and this year the same group has the privilege of having his brother Joe in their midst. The pair hails from Benld, Ill., a little coal-mining town about 50 miles northwest of St. Louis. Both like such sports as football, softball, basketball and track, Bill having been captain of the track and football team at the high school from which he graduated. Joe, a husky lad of 18, likes surveying and his ambitions are along the line of highway engineering.

Roy Fieweger, 20, and his brother George, 18, are freshmen from St. Louis, both taking Mechanical engineering. Roy wants to get a job in aeronautics eventually, but anything suits George. He likes to play chess best. His only despair is that his oldest brother who works in an airplane manufacturing plant always beats him at the game.

Lst for this installment of brothers in the school are those two socialites at the Kappa Sigma house, Roy and Fred Fleschner. Senior and freshman respectively, they both like Metallurgy, and find it easy to go to school with a minimum of studying. Several members of the frat begrudge them this ability. Roy, president of the local chapter of Kappa Sigma, will graduate in June and already has a job in sight. Fred likes school and hopes to make as good a scholastic record as his older brother.

prospective engineers in the various high schools over the state. The aim of the fraternity is to explain the requirements for a good engineer, and to discourage those few who think that it is merely an easy way to qualify themselves for a job. This program has proved successful thus far, and should help to enlighten the high school students towards the profession.

"Adolph" Legsdin, for the past several years with the Solvay Process Company, Syracuse, New York, now holds the position of Associate Professor of Mineral Dressing in the Metallurgy Department at the Missouri School of Mines.

Legsdin, born at Riga, Latvia, is a graduate of the Freiberg Mining Academy at Freiberg, Germany, holding two degrees from that institution and a Master's degree from the School of Mines at Columbia University in New York City. He has had experience in Germany and South America, as well as extensive experience with mining and metallurgical companies in the United States. He is a member of the American Institute of Mining and Metallurgical Engineers and holds a New York State license as a professional engineer.

At its regular meeting last Thursday, February 2 in the Club room, reports were given by the different members who had spoken to their home high schools on the subject of Engineering. Theta Tau members have been cooperating with Dr. Armsby in speaking to

## You Know Them Too

By Jane Hall

This week we have before us a boy who was born and reared in a small town in the heart of the Ozarks—Neal Lorange of Lebanon, Missouri.



Being an outdoor man, it was quite natural that he should decide to study civil engineering with the aim of going into construction work, but Neal's big ambition is "to someday become a consulting engineer with sufficient fees and enough leisure time to live the life of Riley."

Next to a good education, Neal thinks the most important thing that he has gained from his college education is experience in dealing with people, which item will be invaluable to him in his career as an engineer and make life a little more worth living.

One thing that Neal likes about M. S. M. is the fact that a man stands on his own merits and what he accomplishes in school is what really counts. "The hicks have as good a chance as anyone else." Another thing he finds very agreeable is the friendly attitude that exists between the teachers and students. One always has the opportunity for discussing his problems with the "profs."

Mr. Lorange is president of the American Society of Civil Engineers, pledge-master of the Lambda Chi Alpha, advertising chairman for St. Pat's Board and a member of S. A. M. E., Tau Beta Pi and Phi Kappa Phi. He feels as though extra curricular activities are important in a student's life, because they tend to broaden him and make him more capable for the higher position in engineering. He would even advise a person to sacrifice superior grades for organization activity, if necessary.

Last semester, in the course "Engineering Materials," Neal got an idea for a new method of treating telephone poles, wooden piles and other timbers against

## 25-Millionth Car Is Delivered by General Motors

By Otis Banes

General Motors has just recently ushered from its assembly line in Detroit, its 25,000,000th car. The automotive industry, only thirty-two years old, shows the rapid improvement in highways, the hard work in research, the advancement in manufacturing methods, the transformation in both rural and urban life, and last but not least the employment of tens of thousands of people.

This recent accomplishment in Detroit was a result of the original American method of production. The manufacture of those 25,000,000 cars owes its birth to Eli Whitney's invention of interchangeable parts, an engineering feat which is very frequently mentioned in popular accounts of our engineering exploits, but which ranks in importance with the steam engine, the reaper, the telegraph, the lathe and other such inventions. The manufacture of identical electric lamps, crankshafts, nuts and gears of countless machines that can be produced so that one of the same make can be substituted for its identical counterpart without any alterations by filing to make it fit,

destruction by birds and insects. Rex Williams, mechanics teacher, is helping him perfect his idea. He hopes to have the process completed and ready for commercial use in the near future, perhaps before the end of school in June.

In his spare time, Neal is busy earning money to pay for his schooling. His favorite radio programs are the Ford Sunday Evening Hour and the Carnation Hour. Neal is a lover of classical music.

After three and a half years at school, Neal has not lost all the color of his native country, he has a decided Ozark twang, he can tell any number of hilly-billy jokes in a dry humorous manner, and he likes his corn whiskey and venches.

is one of the most outstanding achievements of human ingenuity.

Whitney is often termed the "father" of mass production. This idea of mass production was developed from essentials in our War of 1812 to fill an order of muskets for the Government. Before the astonished eyes of the Secretary of War, Whitney assembled ten pieces taken from as many piles and produced ten perfect muskets. Europe immediately called this "the American system of manufacture." This did away with the manufacture of muskets one by one and initiated their construction by the thousands. This was the first example where peace and industry profited by an invention which grew out of war's necessities.

### HARLOW WEDS

Bruce Harlow, Circulation Assistant of the MSM library, was married to Miss Phoebe Lincoln White of Oklahoma City on February third in a ceremony at the home of the bride's parents. The Harlows have taken up residence in Rolla at the Perry Apartments.

### Bids for Check Room

St. Pats Board announces that sealed bids for the operation of the check room concession during St. Pats Celebration will be accepted by Powell Dennie on or before February 15.

### Miners are always

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### Vanderins of a SOPH'S MIND



Well I am very pleezed to see warm up agin. Far be it from me to complane, but Rosyvelt or the Supreme Court or whoever it that runs the wethir otta gitta intel sense about this thing. The alie time it evir gits cold enny door is in the winter time when verboddy is too cold ennyway, and all are heet waves is in the summertime whin everboddy is sufferin from the heet nobow. I st think how much fewel bills e cood save if he had are hot eather in the winter time and ow much defrigideration bills ood be saved if we had cold aves is the summertime. Well at jist goes to show what ollyticks in the wethir bureaa ill do.

A little cold wethir is all rite, at a cuppla weeks ago it got so old that the wethir bureaa had tag a hole and build a exteision a the bottom side of there termimomenters so the tempira-ture. And you no that old gag bout it bein so cold that whin ou threw a buckit of boilin water at of a secund storie winder it ood freeze befoer it hit the round. Well last weak it was so old that by the time you had te winder open to throw out the oiling water, it was alreddy oze in the buckit. Furthermore, te moikery companies is gonna take a fortune, on acct of you o moikery is this stuff in ther-ermimomenters wich contractks hin it gits cold. Well, it got so old the uther day that the oikery conkrackted up so much at it disserpeared compleatley. In faktt, it got so cold that a illo down in Floirder axidentally ound a B.T.U. in a furnace, and arned if he didnt put it in a lass case and start a sideshow, ad now pepul is payin too bits st to look at it.

### Former 'Mountie' Graduate Student

It is a far cry from that picturesque, romantic, and silently efficient arm of the law, The Royal Canadian Mounted Police, to the work of a graduate student at the School of Mines, yet Peter Simonds, who is working on a Bureau of Mines Fellowship, is service in that famous organization.

From 1931 to 1933 he served as member of the force, spending the year in the North. In the weather which has made the citizenship of Rolla hug their fire-fires, Peter has been enjoying the imate.

Mr. Simond's home is in Vancouver, British Columbia, where he attended the University, graduating with a B. A. degree in 1934 and a B. A. S. C. in Chemical Engineering in 1935. At the School of Mines he is working on Master of Science degree in chemistry, which he will receive in the spring.

Peter is interested in sports, having played on the Rugby team at high school and winning the 40 track event in College as well

### This Scientific World

By Gene Martin

New Diesel airplane engines of the 1000 horsepower class made in Germany can compete successfully in performance with gasoline engines according to Paul H. Wilkinson, consulting engineer. Mr. Wilkinson gained his information by inspecting planes and factories in Europe before the outbreak of the war. From his information Mr. Wilkinson compared the liquid-cooled B. M. W. L-anove Diesel of Germany with top ranking American aircooled motors using 87 octane gasoline. Mr. Wilkinson concludes that there new German Diesels can compete with even the 90 octane and 150 octane gasoline engines of this country.

A new method for getting a high polish on metals without the use of a lot of "elbow grease" has recently been developed at the Battelle Memorial Institute in Columbus, Ohio. Shiny surfaces are produced by the use of chemical solution and electricity. This system has many advantages over the old system and costs less. Ordinary pieces of steel, nickle, copper, brass, and zinc, just as they come from the mill can be treated to a better polish than obtained by the older methods. Along with the polishing the metals are given protection from corrosion and rust. The system used is the reverse of electroplating. The electricity takes the metal away instead of adding it. A highly oxidizing solution is needed to eat away the higher spots on the metal. This system can be applied to many small and intricate articles which would not be polished by the older method.

A new comb has been made of which they say has the first basic improvement made in combs during the last 4000 years. This comb has the backbone pushed to one side so that the teeth go all the way back. This eliminates pockets in which dirt and lint can collect and so the comb is self-cleaning.

The dean of a college was investigating a charge made by some of the girls that the men who lived in the fraternity house next door forgot to lower their shades.

The dean looked out of the sorority window and said, "Why, I can't see into any of the fraternity house windows."

"Oh, yes you can," chorused the girls. "All you have to do is get up on a chair."

as playing three years on the University of British Columbia Hockey team of which he was Captain one year. He has had two summers of aviation training.

Mr. Simond's father is Colonel C. B. Simonds of Vancouver, a civil engineer, who received the D. S. O. of the British Government and the French award of the Legion of Honor for his service in France. Peter's mother, however, was a native Virginian. He is 33 years old, married and has a five year old daughter. He has found the people here very hospitable and likes the country quite well.

### In The Mood

By "Benny" Johnson

When the Ben Pollack was disbanded in 1936 its remnants were put together by the Rockwell-O'Keefe office with Bob Crosby as leader for the new band. Crosby was taken from the Dorsey brothers orchestra where he was the featured vocalist. The band has played practically every big theatre and hotel in the country but they were not popular until just recently. Soon after the band was organized the form of financial organization was changed over to collect ownership with Gil Roclun as president and Bob Crosby as vice-president. No tall the boys in the band own stock in it, but a basic number do, as others may be voted shares, and thus a share of the profits beyond their regular salary. Recently after a short fight with Rockwell-O'Keefe the band signed a contract with the Music Corporation of America. They recently replaced Benny Goodman on the Saturday night Camel show and they record for Decca.

The style of the band is dixieland. Dixieland in a few words is two beat rythm which is the base for everything else. Playing two-four time, the rythm has lots of "stuf" too fill in every measure with, and that's how the choppy effect of Dixieland is created.

In general we don't like the Crosby band or the style. The vocal department is woefully weak. Bob misses fire on most of his vocals and he never had a good female vocalist. Several members of the band are inadequate for their position. There are several outstanding, almost great, soloists that are the saving feature of the band. Jess Stacey is swings greatest white pianist, Irving Fazola is one the few great clarinetist, Eddie Millers' hot saxophone rates him definitely among the big four and Bobby Haggert's bass, although monotonous at times, for the most part is plenty good. Whether we like Crosby or not the fact remains he is very popular and is gaining in popularity every day.

### RAMBLINGS:

Once more we warn you to listen for Will Bradley and his fine new band. The pdogram for Columbia Records last Friday night was plenty good. Speaking of programs Jimmy Dorsey's recent broadcast ofr Fitch was entertaining and easy on the ears.

Woody Herman's arrangement of "Would You Mind" is an example of what every dance tune should be. It fairly radiates rythm.

Fred Waring has written songs Ohio Wesleyan and Oregan State because he was petitioned by the students. We could use a good song for our school.

A new arrangement of an old tune was very unsuccessfully made by Bob Crosby when he went over "Jo-Da". He called it the "Boggie Woggie Ja-Da."

### Carlton Addresses Illinois Engineers

Prof. E. W. Carlton gave a paper, "Relations of the Professional Engineer to The Public" before the Illinois Society of Engi-

### Wives of Students Elect Officers

The M. S. M. Wives of Students met last Monday at the home of Mrs. William Yates. There was an election of officers during which Mrs. Edgar Thompson was elected president, Mrs. Jason Patrick, vice president, Mrs. Elmond Claridge, secretary-treasurer. After the business meeting Mrs. Ivan Neidling gave a talk on "Infant Care." Light refreshments, which everyone enjoyed, were served.

The next meeting will be held February 5, 7:30 p. m. at the home of Mrs. Leon Harshkowitz, 203 E. 12th Street and all wives of students are urged and invited to attend.

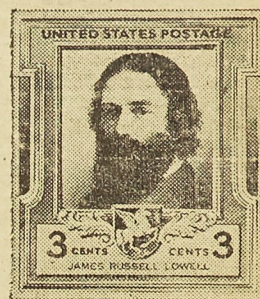
### HOSPITAL NOTES

The Hospital staff has certainly been busy during the past week. There seems to have been an abundance of sickness resulting from the sudden change in weather. Twenty boys paid visits to the campus infirmary, including: Bob Silhavy, R. H. Egbert, W. P. Matthews, John Allen, W. J. McNamara, D. Christensen, Jack Markley, M. E. Bowman, Chas. White, J. A. Koelmel, Paul Dowling, Franklin Rogers, R. G. Van Nostrand, Joe Sueme, B. S. Burnett, C. C. Palmer, Carl Cotterill, Joe Schmitz, K. Livingston, and E. H. Greeson; each doing his stretch for a cold, tonsillitis, or "flu". Besides these mentioned above there were approximately fifty to sixty patients who daily visit the clinic. The sick rate during the week has been the highest during this school year.

neers at their 55th Annual Meeting in Rockford, Ill.

Prof. Carlton left Rolla Wednesday morning to spend two days at the convention and two days in Chicago, where he made some contracts for the forthcoming Senior Civil Trip.

### STAMP NEWS



THE James Russell Lowell 3-cent purple stamp of the U. S. Famous Americans series honors one of the nation's most distinguished poets and critics. This stamp, third of the poets group, will be placed on first-day sale at Cambridge, Mass., on Feb. 20.

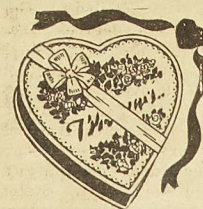
Lowell's first wife was the inspiration for his early verse. He had tried law, then turned to publishing a literary journal to which Hawthorne, Emerson, Whittier, and Poe contributed. The magazine died after three issues, but it started Lowell on the way to literary greatness.



WAR and earthquake have destroyed most of the ancient splendor of Corinth, famous city of ancient Greece. Shown above on a Greek airmail are the columns of the Temple of Apollo. The Romans burned Corinth to the ground in 146 B. C. The city was rebuilt, destroyed by an earthquake in 1858.

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### THE ROLLAMO SODA SHOP



# Innocent Bystander

by JIM JENSEN

Percy Grainger convinced us on a point that has stuck in our craw for a long time now—the Miners really enjoy good music. It may be that Sarita had more than artistic appeal last year, and Pauline Pierce and Ralph Greenwell could have won their audiences with personality and the popular songs that they sung, but it could have been nothing other than music and musical talent that held the Miners last Thursday night. Perhaps they are not all as soft shelled as we are—to feel lonely during the "Largo" or to dream of the fountains and water playing in "The Fountains," but surely very few can fail to catch the little undercurrents, the flagrant melodies, the rhythm and staccato of such music as we heard Grainger play.

The pianist's stage appearance was a puzzle. At first appearance he was strikingly genius-

looking or something—maybe he just needed a hair-cut. But having heard that he is often humorously eccentric, we were disappointed that he never so much as cracked a smile during his performance. However, it is reported that his personality off the stage is very interesting and congenial.

While we're on the subject of musicals, a few words on the subject of ethics may not be amiss. A gentleman (and it's no disgrace to be one) will never walk out of the hall while a musician is playing. This is the rudest habit that can prevail at a public performance. It is also a classic tradition that there shall be no applause between the movements of a sonata. Finally, may we say that we could never understand the ego of the person who sits and hums or whistles his own version while a master is rendering some familiar number before the audience.

ended with an encore, "One More Day," a sailor song.

The final group was by far the most enjoyable to the majority of audience. The four numbers were "The Merry King," set by Grainger from an English ditty "Scotch Strathspey and Reel," adapted by Grainger from two Scottish dances, "Lullaby," from "Tribute to Foster," arranged by Grainger from his own choral composition, and "Marguerite's Kick," an old Irish march-jig written for orchestra by Stanford and adapted by Grainger.

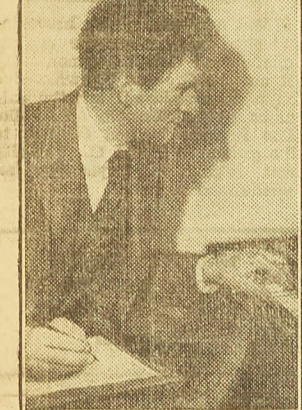
In response to the rounds of applause, Grainger played as encores "Juba Dance," by Nathaniel Dett, and his own very popular composition, "Country Gardens."

Mr. Grainger's reputation has long stood in many countries of the world. He plays compositions of any nationality as if it were his own, and has copied or transcribed folk-songs in many nations. His music has won applause in the greatest music halls in the world.

Mr. Grainger's music was superb in its beauty and power. To the untrained majority of his audience, the rapidity and dexterity of his hands was unbelievable. The rapid and complicated movements which he played were a tribute to his capability, and the listeners sat as awed watchers while he lightly filigreed or majestically swept the keyboard. Were there no ear for the beauty of the music, one would still have to applaud Mr. Grainger's excellent and easy exactitude of playing.

For the past week Mr. Grainger has been working on some old arrangements with the orchestra at Stephens' College in Columbia.

Patronize our Advertisers



Percy Grainger

a number of Grainger's own arrangements and compositions, was one of the General Lectures series.

The first group included "Fantasia and Fugue in G Minor" written by Bach and arranged for piano by Liszt, and Grainger's arrangement of Brahms' "Cradle Song."

The second group was the four movements of the "Sonata in B Minors," by Chopin. It was followed by a group of four songs of French origin, namely "After a Dream," by Faure, "The Fountains," by Ravel, and "Moonlight" and "Toccata, in C Sharp Minor," by Debussy. This latter group was

## Collegiate Review

Gallaudet College (Washington D. C.) is the only college for the deaf in the world.

University of Vermont has a special student ski patrol to supervise the running of ski races and to aid injured skiers.

Mrs. Ida Benfey Judd of New York City is working to have some U. S. university establish a Mark Twain Chair for the Advancement of Humor.

Lafayette College is the depository of what is believed to be the best possible working collection of materials for the study of General Lafayette.

Approximately one-third of the University of North Dakota students are Lutherans.

Miami University tests have proven that men have more rhythm than women.

New York University has more students (37,376) than any other U. S. college or university.

Of the Big Ten universities Purdue University has a higher percentage of university-owned housing accommodations than any other school.

The average attendance at a college football game this year was 22,733.

On the University of California's new geological clock, one second represents the passage of 50,000 years.

George Washington University will soon begin the construction of a million dollar auditorium.

Ninety-five per cent of the Cornell University students have a religious preference.

The University of North Dakota has 33 nationalities represented in its student body.

The University of Vermont will begin construction soon of a million dollar building to be named after Sen. C. W. Waterman.

Northwestern University received more than \$9,000,000 in gifts during 1939.

The University of Michigan has one of the two largest specimens in the world of apollite meteorite.

The College of the City of New York has 14 special courses for city government employees.

A direct connection between in-

## NOTICE

This notice is directed to the attention of the student body and all organizations of the campus and to inform them that the Joe Adams Agency in the person of Joe Adams, a MSM student, will be more than pleased to present to any organization of the school bids for any orchestra engagements.

Among the outstanding bands offered by the agency is Al Page and his orchestra, presently being featured at the Casa-Loma Ballroom in St. Louis and may be heard on Tuesdays, Thursdays and Saturdays at 11:30 p. m. over KXOK (St. Louis). Norman Satter and his orchestra, a Washington U. band, is also a fast climbing band offered by the agency.

Furthermore, among the name bands offered by the agency for larger engagements, such as St. Pat's, are Anson Weeks, Dick Jurgens, Joe Reichman, Griff Williams, "Little" Jack Little, Gus Arnheim (presently at Chase Club in St. Louis) and many others.

Bids will be granted by Joe at 603 Olive, phone 696J or the St. Louis office, 4166 Olive St., phone Jefferson 1700.

JOE ADAMS  
603 Olive

## Student Opinion Poll

Although college students have often shown an emphatic desire to keep the United States neutral, a nation-wide poll completed last week reveals that sympathy for Finland is great enough for a majority of theme to approve of American loans to the only nation that has kept up its war debt payments.

Specifically, 62 per cent of the collegians answered "yes" to the question, "Should Congress allow Finland to draw on her latest World War payment to the United States?" This study of sentiment in the American college world is one of the weekly polls conducted for the Missouri Miner and scores of other undergraduate newspapers that form the Student Opinion Surveys of America. A carefully-derived sample of students is used by the interviewers in measuring opinions of the nearly one and a half million U. S. collegians.

Favorable sentiment was found in all parts of the country on this proposal that President Roosevelt made recently, and controversy over the type of aid this country should give Finland has already flared in Congress. New England students are the most in favor, more than seven out of every ten approving, while those in the Far West are the least in favor. An interesting fact brought out by the Surveys in this and many other polls on international questions has been that people in colleges on the eastern coast are usually more interested in the part U. S. should play in the solution of Europe's troubles. As one goes West interest wanes, as these results of the present poll show:

Should we allow Finland to use

telligence and electrical conditions in the brain has been discovered by Cornell University scientists.

## Major C. J. Blake Addresses S.A.M.

Last Friday, February 2, M. C. J. Blake of the Quarter Master Corps spoke at the meeting of the Missouri School of Mines chapter of the Society of Military Engineers. In the course of his speech Major Blake outlined the complete organization and duties of the Q. M. Corps.

To illustrate the methods in storage, pictures were shown of the Chicago depot. This covers three city blocks and to a height of six stories.

Major Blake is attached to the Seventh Corps Area as Project Quartermaster and as it is his job to supply all equipment needed in that territory.

use her war debt payment?

Yes  
New England ..... 72  
Middle Atlantic ..... 62  
East Central ..... 61  
West Central ..... 62  
South ..... 64  
Far West ..... 51  
U. S. Total ..... 62

This survey stands out in contrast to student opinion October, when a majority favored with national public opinion in opposing change in the net law in favor of cash and

New York wants both political conventions. If Dewey nominated, he would just have to step into a subway to down for the acceptance speech.

The Japanese are raising a ruckus over the 21 Nazi sailors interred by Britain. Seems Tokio has enough to worry about with American treaty gone.

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## Most of Sixteen Graduate Students Who Are Attending School of Mines This Year Concerned With Chemistry

By KEN VAUGHAN  
There are sixteen graduate students at the School of Mines this year. Most of these are or have been concerned with Chemistry or Chemical Engineering. Metalurgy also seems to be popular among these students.

N. Beekman, whose original home was New York City, was graduated from the University of Dayton, Ohio, in 1936 in Chemical Engineering. For three years he was Engineer for Eagle Picher Company, at Picher, Oklahoma. He is a candidate for registration as a professional license in Engineering in Oklahoma. Mr. Beekman is working on his degree in Science but as yet no definite thesis. He is married, 30 years old and intends to continue in research work. At the present time he is Research Metallurgist at the Bureau of Mines.

F. Boltz is working on his thesis, "Determination of Aluminum in Clays," for his Master of Science degree in Chemistry. He graduated from the University of Wisconsin in 1938 with a degree in Inorganic Chemistry. His thesis will be finished this spring. Mr. Boltz is 23 years old, his home is Beloit, Wisconsin. He is a student member of the Alpha Chi Sigma, A. I. Ch. E., a graduate assistant in the Chemistry Department. Mr. Boltz is a smaller school like Missouri School of Mines has certain advantages to offer graduate students due to the closer relation between professors and students.

Carrolla was graduated from the Missouri School of Mines in 1937 with a Bachelor of Science degree in Civil Engineering. The following two years he was a graduate assistant and now is an assistant instructor in the Mechanics Department. He received his Master of Science degree in Civil Engineering this year on Rhenium. Mr. Dean is when he completes his thesis, "Photo-Elastic Investigation of Short Beams." Prior to his graduate work here he attended Kansas City Junior College. He is a member of Tau Phi. Mr. Carrolla is 25 years old, enjoys the hobbies of golf and photography. He intends to enter the practical field of engineering following the completion of his work here.

L. Clardige is a graduate student in Chemical Engineering in the Missouri School of Mines. The subject of his thesis is "Protection of Natural Stone from Weathering by Use of Chemical Protective Agents." Clardige is 22 years old, married, member of the student body of the A. I. Ch. E., pledged Alpha Chi Sigma, member of Triangle Fraternity, President of Phi Kappa Phi, and a member of the Miner. His hobbies are astronomy, model making, and chess. Mr. Clardige's home is in St. Louis. Hard G. Courtney has a fellowship with the State Mines Experiment Station. He was graduated from the University of Idaho in 1937 with a Bachelor of Science degree in Metallurgy. In 1938 he obtained his Master of Science degree in Metallurgical Engineering, and is working here on his Ph. D. thesis on the problem of Copper-Lead. He is 25 years old, a member of Alpha Chi Sigma, Gamma Upsilon, Alpha Phi Omega, and K. Dean was graduated

from the University of Wisconsin in 1939 with a Bachelor of Science degree in Chemistry. He is at the School of Mines this year on a graduate assistantship working for his Master of Science degree. The subject of his thesis, which will be finished next year, is "Relative Polishing Qualities of Various Abrasives in the Preparation of Polished Mineral Sections," for his Master of Science degree in Mining Engineering. Mr. Rasmussen is leaving Rolla to work at the Bureau of Mines in Salt Lake City on photomicrography in connection with metallography. His home is in Minneapolis, Minnesota.

William A. Enderson who is from Rochester, Minnesota, was graduated from the University of Minnesota at Minneapolis in 1938 with a Bachelor of Science degree in Chemical Engineering. "Bill" is a graduate assistant in the Chemistry Department, Master Alchemist of the Alpha Chi Sigma Student Chapter, member of student chapter of A. I. Ch. E., and flight instructor for the Glider Club. The title of his thesis for a Master of Science degree which he will receive in the spring is "Absorption of Carbon Dioxide in the Bubble Cap Tower." He is 25 years old, hopes to go into industry in the near future.

Roy W. Graves is a graduate of Texas A. and M. from which he received his Bachelor of Science degree in Geology in 1933. He is at the School of Mines this year working on a graduate assistantship while studying on his thesis on mineral identification which will be completed next year. Mr. Graves is a member of the A. I. M. E., and was a member of the Texas A. and M. scholarship honor society. He is 24 years old, a Lieutenant in the O. R. C., and his hobby is collecting minerals.

John R. Hubbard was graduated from Missouri School of Mines in 1936 with a Bachelor of Science degree in Chemical Engineering. He studied one semester at the University of Cincinnati and is now working on a Master of Science degree in Chemical Engineering. He is a member of the Military Band, Phi Kappa Phi, Tau Beta Pi, Blue Key, Theta Tau and Kappa Sigma. John lettered three years in football at M. S. M., is 24 years old, a Lieutenant in O. R. C., and enjoys his hobbies—tennis and music.

J. H. Jacobs was graduated in 1936 from Pennsylvania State with a Bachelor of Science degree in Chemistry. He worked the next two years with the Western Electric Company. He received a Bachelor of Science degree this spring. The subject of his thesis is "Uses of Electrolytic Manganese as Alloying Agent in Manganese Copper Alloys." Mr. Jacobs is at the School of Mines on a Bureau of Mines Fellowship. He is a member of Alpha Chi Sigma, 24 years old, golfer, and collects books in his leisure time. His present home is Salt Lake City, Utah.

Eugene F. Hill is a graduate of Missouri School of Mines in Chemical Engineering class of 1939. He is from Lebanon, Mo., a member of Alpha Chi Sigma, Phi Kappa Phi, Alpha Psi Omega, and the student branch of the A. I. Ch. E. At present Mr. Hill is a graduate assistant in the Physics Department. The topic of his thesis for a Master of Science degree is "The Effect of Addition Agents in Crushing and Grinding." Mr. Hill is also a member of the student branch of Alpha Chi Sigma. He is 23 years old, and enjoys golf in his spare time.

Robert T. Rasmussen was graduated from the University of Minnesota in 1938 as an Engineer of Mines. Last year he worked on his thesis, "Relative Polishing Qualities of Various Abrasives in the Preparation of Polished Mineral Sections," for his Master of Science degree in Mining Engineering. Mr. Rasmussen is leaving Rolla to work at the Bureau of Mines in Salt Lake City on photomicrography in connection with metallography. His home is in Minneapolis, Minnesota.

Peter Simonds is a graduate of the University of British Columbia at Vancouver, British Columbia from which he received his B. A. degree in 1934 and his B. A. S. C. in Chemical Engineering in 1935. He came to Rolla in September of last year on a Bureau of Mines fellowship to obtain his Master of Science degree in Chemistry. His thesis is to be completed in August. Mr. Simonds is 33 years old, and married.

Shiou Chuan Sun of Shantung, China, is studying here on a Bureau of Mines Fellowship. He received a B. S. degree in Mining and Metallurgy from Pei-Yang University, Tien-Tsin, China. He spent one year at the University of Illinois where he specialized in coal washing and coal utilization. In the spring of 1938 he received his Master of Science degree in Mining and Metallurgy. He is now working for a degree of Doctor of Metallurgy. The title of his thesis is "The New Utilization of Barite," Mr. Sun intends, on the completion of his work, to return to China and devote his life to ore dressing and physical metallurgy. He recently received from the Northern Yunnan Mining Co. of China a sample of low grade copper ore which he will test by leaching and electrolytic method. He is 26 years old, and a junior member of the A. I. M. E.

William H. Webb was graduated in 1935 with a Bachelor of Science in Chemistry from Mississippi State College. He remained at that institution the next year as assistant instructor. In the year 1936-37 he was at Louisiana State University on a graduate assistantship. In the spring of 1939 he received his Master of Science degree in Chemistry from Missouri School of Mines. The subject of his thesis was "Reaction of Acid Halides on Sodium, Zinc, Magnesium, and Amalgams." From 1937-1938 he was graduate assistant, the next year assistant instructor, and this year he is an instructor at the School of Mines. He also taught at the summer sessions during the last two years. Mr. Webb is a member of the Mississippi State Chemical Fraternity, Gamma Theta Epsilon, a professional member of Alpha Chi Sigma, and a member of Sigma Xi. He is 25 years old and devotes spare time to hunting and photography. Mr. Webb is also a First Lieutenant in the Coast Artillery, O. R. C.

W. E. Yates has the degrees of Bachelor of Arts, and Bachelor of Science from Northwestern State Teachers College with Chemistry and Physics majors. He received his degree of Master of Science in Chemical Engineering from Iowa State in 1938. He is taking graduate work here while a full time instructor. Mr. Yates, who is married, and 30 years old, taught three years in a high school.

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## Curtiss-Wright Superintendent, MSM Graduate, Addresses A. S. M. E. Meeting

Jimmy Foster, class of '25, who is now superintendent of Curtiss-Wright airplane factory in St. Louis was speaker for the evening at the A. S. M. E. held Friday night. He brought Dale Smith along with him to show two reels of a movie of the design and construction of the P-20, largest two-motor airplanes built for commercial purposes.

The P-20 has a wing span of 108 feet and is seventy-five feet long from tail to tip. The wheels are about five feet in diameter and are placed 25 feet apart. The landing gear is retractable and hydraulically operated. The plane has two decks. The upper deck is the passenger deck and has toilets, wash rooms, and lounges. It also has a small kitchen where hot or cold lunches can be prepared. The lower deck can be used for carrying between two and three tons of baggage.

The power plants for this plane are two 1700-horse power cyclone engines with fifteen-foot controllable pitch propellers. These engines were developed with an idea of stratosphere flight and they are equipped with two speed superchargers that will allow them to operate at an altitude of about 35,000 feet. The cabin is built to maintain constant pressure within even at high altitudes so that passengers will not be affected by low air pressure.

The cruising speed of this plane will probably be about 240 miles per hr. with gas consumption of about 125 gallons per hour. It will

land at seventy miles an hour and will be able to land on any standard commercial airport.

The control instruments are arranged very conveniently and are accessible at all times to both pilot and copilot. The new tell-tale panel shows at a glance whether everything is functioning properly. If any part is not operating properly, a light flashes on and tells the pilot which part he must check.

After years of designing, testing, redesigning, more testing and final construction the P-20 is almost ready for a test flight. It cost about a million dollars to build this plane, and it will probably sell for a third of a million if it is ever built on a production basis.

Mr. Foster also mentioned a smaller military model that Curtiss-Wright is building for China now. It is a one place ship that will climb 6000 feet per minute fully loaded with two 50 caliber and to 30 caliber machine guns that fire between the blades of a three bladed propeller.

## McNish Speaks Before A. S. C. E.

Mr. Charles F. McNish, Senior Engineer, U. S. Engineers, was the principal speaker at the A. S. C. E. meeting last Tuesday night, Jan. 30.

After a background speech by Mr. Gray, Mr. McNish delivered his illustrated lecture, "Welding Consciousness," which won a \$1,500 prize in a contest sponsored by the Lincoln Arc Welding Foundation.

In his lecture, Mr. McNish compared a parallel riveted and welded design of Tainter Gates to be used on the Mississippi River at Clarksville, Missouri.

Savings of 28 per cent in fabrication and from 20 to 30 per cent in the weight of the structure were found to be favor of the welded design.

A study based on several years experimentation revealed that it is possible to make a welded joint which is 100 per cent efficient as compared with a riveted joint with a 93 per cent efficiency.

Mr. McNish referred to the use of welded design as something belonging to a designer's paradise because of its great simplification of complicated points.

Unfortunately for the proof of the design, the lowest bidder for the contract was low on the riveted design but the great majority of the other bidders were low on the welded design. Even though welded joints were not used at Clarksville, the study made there is serving as a basis for the adoption of welded design on other projects of the U. S. Engineer Corps.

The lecture was attended by professors and students of the Mechanical and Metallurgy Departments, a group from the U. S. G. S. and an out of town group in addition to members of the A. S. C. E.

### Theta Kappa Phi Initiation

Theta Kappa Phi Fraternity held a formal initiation Sunday afternoon, February 4, following a banquet in honor of initiates, Michael Catanzaro, Glen Larsen, Art Leisher and Gene Rauch. Following the ceremony soft drinks were served in celebration of the occasion.

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### RIFLE TEAM

(Continued From Page 1)

the star performers of the team.

Kent Martin and Charles Zanzie, although starting late in the season, have progressed so rapidly that they will both be valuable team members next year.

E. G. Johannes, freshman, has placed regularly in the ten high men for every match, and is the most promising of this year's tryouts.

Most of the matches fired by the Miner squad are postal matches. Such matches are fired on a pre-arranged date. Most of these matches are fired using ten men teams. Each man fires ten shots in each four positions: prone, sitting, kneeling, and standing. With a possible ten points for each shot, a total of 400 points per man, or 4000 for the team, is possible. Five man teams, five shots instead of ten, and three instead of four positions are sometimes used.

The scores for the ten matches of the Miners this year are as follows:

Rose Polytech	3255	MSM	3633
Clarkson Tech.	2482	MSM	2675
W. Vir. Uni.	3496	MSM	3609
Vir. Polytech	3530	MSM	3629
Harris Teachers	879	MSM	925
U. of Alabama	2893	MSM	2931
U. of Tennessee	3352	MSM	3613
Yale University	1345	MSM	1389
Coe College	1829	MSM	1876
Rose Polytech	3398	MSM	3642

### BUTLER

(Continued From Page 1)

with Prof. Butler, Prof. Carlton made a pioneer and exhaustive survey of Texas County, Mo., showing its road building needs and ability.

Prof. Butler is now serving his third year as Director of The Planning Division and his fourth year as Vice President of the Educational Division of the American Road Builders Association.

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